IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A multi-stack optical data storage medium for recording and reading using a focused radiation beam entering through an entrance face of the medium during recording and reading, comprising:

~~a~~ a first substrate ~~with present~~ having, on a side thereof~~:~~

~~,~~ a first recording stack ~~named~~ L_0~~,~~ comprising a recordable type L_0 recording layer comprising a dye, and formed in a first L_0 guide groove, and a first reflective layer present between the L_0 recording layer and the first substrate~~;~~;

~~a~~ a second substrate ~~with present~~having, on a side thereof~~:~~

~~,~~ a second recording stack ~~named~~ L_1 comprising a recordable type L_1 recording layer, said second recording stack being ~~present~~ at a position closer to the entrance face than the L_0 recording stack and formed in a second L_1 guide groove~~;~~; and

~~a~~ a transparent spacer layer sandwiched between the first and second recording stacks, said transparent spacer layer having a thickness substantially larger than the depth of focus of the focused radiation beam,

characterized in that the first L_0 guide groove has a depth $G_{L0} <$ 100 nm.

2. (Currently Amended) ~~A~~ The multi-stack optical data storage medium ~~according to~~ as claimed in claim 1, wherein G_{L0} < 80 nm and the first L_0 guide groove has a full half maximum width W_{L0}< 350 nm.

3. (Currently Amended) ~~A~~ The multi-stack optical data storage medium ~~according to~~ as claimed in claim 1, wherein 25 nm < G_{L0} < 40 nm and the first reflective layer comprises a metal and has a thickness > 50 nm.

4. (Currently Amended) ~~A~~ The multi-stack optical data storage medium ~~according to~~ as claimed in claim 1, wherein the recordable type L_0 recording layer ~~comprises a dye and~~ has a thickness between 70 nm and 150 nm measured on the land portion of the guide groove.

5. (Currently Amended) ~~A~~ The multi-stack optical data storage medium ~~according to~~ as claimed in claim 1, wherein said multi-stack optical data storage medium further comprises a dielectric layer ~~is~~ present at a side of the L_0 recording layer opposite from the side where the first reflective layer is present.

6. (Currently Amended) ~~A~~ The multi-stack optical data storage medium ~~according to~~ as claimed in claim 5, wherein the dielectric layer has a thickness in the range of 5 nm - 120 nm.

7. (Currently Amended) ~~A~~ The multi-stack optical data storage medium ~~according to~~ as claimed in claim 1, wherein said multi-stack optical data storage medium further comprises a second reflective layer comprising a metal ~~is~~ present at a side of the L_0 recording layer opposite from the side where the first reflective layer is present.

8. (Currently Amended) ~~A~~ The multi-stack optical data storage medium ~~according to~~ as claimed in claim 7, wherein the second reflective layer has a thickness in the range of 5 nm -15 nm.

9. (Currently Amended) ~~A~~ The multi-stack optical data storage medium ~~according to~~ as claimed in claim 7, wherein the second reflective layer mainly comprises a metal selected from the group of Ag, Au, Cu, Al.

10. (Currently Amended) ~~A~~ The multi-stack optical data storage medium ~~according to~~ as claimed in claim 1, wherein the effective reflection level of the stacks is at least 0.18 at a radiation beam wavelength of approximately 655 nm.

11. (Previously Presented) Use of an optical data storage medium as claimed in claim 1 for multi stack recording with a reflectivity level of the first recording stack L_0 as such of at least 0.5 and

modulation of recorded marks in the L_0 recording layer of at least 0.6 at a radiation beam wavelength of approximately 655 nm.